

Pre-Construction Peak Flow

Runoff Curve Number and Runoff

Fri Feb 07 15:41:49 2020

Project: WV PP II

By:

Date: 02/07/20

Location:

Checked:

Date:

Present

1. Runoff Curve Number (CN)

Cover description	CN	Soil Group	Area(Acre)
Gravel Streets, Pads and Buildings	89	C	0.000
Grass (Good)	74	C	64.540
Woods (Good)	70	C	8.840

CN (weighted): 73.5

Total Area: 73.380 Acre

2. Runoff

Return Period: 1 YEAR

Rainfall, P: 2.48 in

Runoff, Q: 0.5775 in

Runoff Volume: 3.5311 Acre-Ft

Time of Concentration (SCS)

Fri Feb 07 15:44:03 2020

Project: WV PP II

By:

Date: 02/07/20

Location:

Checked:

Date: 02/07/20

Present

Curve Number : 74

Length of Flow : 4350.00 ft

Average Land Slope : 2.38 %

Time of Concentration : 1.330 hrs, 79.8 mins

Graphical Peak Discharge

Fri Feb 07 15:44:41 2020

Project: WV PP II

By:

Date: 02/07/20

Location:

Checked:

Date:

Present

1. Data:

Drainage area:.....A = 73.3800Acres

Runoff Curve Number:.....CN = 74

Time of Concentration:.....Tc = 79.78 min

Storm Type:..... = II

Pond and swamp areas spread
throughout watershed..... = 0.00 percent of A
0.0000 Acres

2. Frequency.....yr = 1

3. Rainfall,P(24-hour).....in = 2.48

4. Initial abstraction, Ia..... = 0.7027

5. Compute Ia/P..... = 0.2833

6. Unit peak discharge, qu.....csm/in = 253.524

7. Runoff,Q.....in = 0.5970

8. Pond & swap adjustment factor,...Fp = 1.00

9. Peak Discharge,qp.....cfs = 17.355